

METHOD FOR THE RAPID DETERMINATION OF THE OPTICAL
QUALITY OF COMBINATORIAL LIBRARIES

ABSTRACT OF THE DISCLOSURE

[0058] This invention provides methodology for the measurement of both low and high levels of scattered radiation produced by decorative and barrier coatings and plastics. Measurements of low levels are especially important for coatings used in automotive applications. The method is based on the illumination of the sample with radiation and collection of only the portion of the radiation scattered from the coating before, during and after the testing step and relating the optical signal from the tested portion of the sample material to the untested portion of the material and/or a standard. Through the practice of the invention, a large number of coating samples, as in an array, may be analyzed for their optical quality, principally haze, either after coating and curing, and/or after subjection of such coatings samples to elongation stresses, and/or abrasion testing, solvent exposure, hydrolytic stability testing, and temperature exposure.